

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

REGULATORY CONTACT RECORD

Date/Time: May 21, 2002
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Purpose of Contact: Confirmation Sampling at the PU&D Yard

Discussion

The PU&D Yard Treatability Study is in progress and groundwater results indicate that the VOC concentrations in groundwater have declined substantially. The purpose of this treatability study was to evaluate the effectiveness of the Hydrogen Release Compound® (HRC®) for degradation of volatile organic compounds (VOCs) in low groundwater flow regimes.

This area was selected because it had the highest concentration of PCE in the groundwater and in the soil in IHSS 174a. The PCE concentration at borehole 17497 was 5,700 micrograms per kilogram (ug/kg) at 11 feet below ground surface that exceeds the Rocky Flats Cleanup Agreement (RFCA) Tier I Action Levels of 3,150 ug/kg.

The groundwater concentrations show a substantial decline in VOC concentrations in the groundwater indicating that the HRC® is effectively reducing contaminant concentrations. However, to determine if the suspected desorption of VOCs from the soil has taken place, a borehole will be placed immediately west of and adjacent to BH 17497 to collect and analyze soil samples for VOCs. Samples will be collected at 2-foot intervals from the surface to a depth of 16 feet in accordance with the protocols outlined in the Buffer Zone SAP. An additional VOC sample will be collected at the bedrock surface.

Contact Record Prepared by: Annette Primrose and Craig Cowdery

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